

# Appendix B

## Highest Test Plots

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# 1. BT Head-worn 0mm SAR

Date: 05.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

Q23111313-2E

DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02

Communication System: UID 0, Bluetooth (0); Communication System Band: Bluetooth; Frequency: 2441 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.755$  S/m;  $\epsilon_r = 38.043$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(8, 8, 8); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Front side 3DH5 2441/Area Scan (9x25x1): Measurement grid: dx=10mm, dy=10mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0243 W/kg

Configuration/Front side 3DH5 2441/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

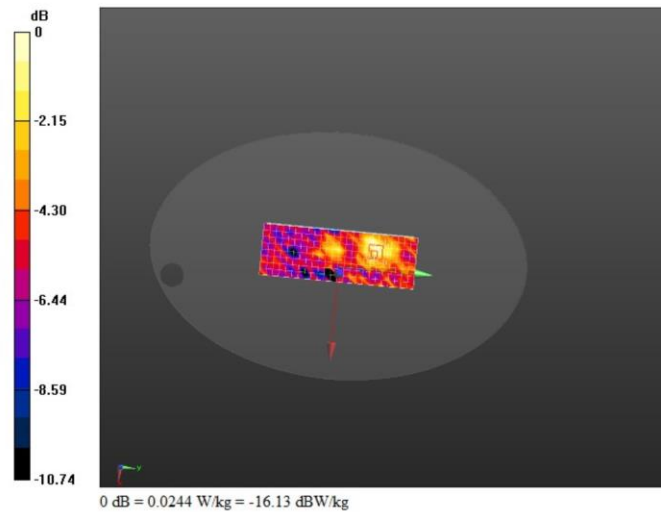
Reference Value = 2.224 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0290 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.011 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0244 W/kg



## 2. WIFI\_2.4G Head-worn 0mm SAR

Date: 05.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

Q23111313-2E

DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02

Communication System: UID 0, 2.4G wifi (0); Communication System Band: 11b; Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005  
 Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.773$  S/m;  $\epsilon_r = 37.992$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

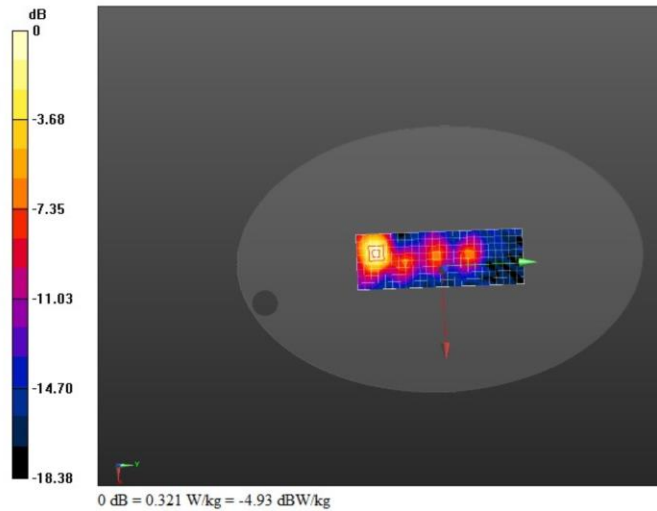
- Probe: EX3DV4 - SN3906; ConvF(8, 8, 8); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/ANT1 Top side 11B 2462/Area Scan (9x25x1): Measurement grid: dx=10mm, dy=10mm

Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.314 W/kg

Configuration/ANT1 Top side 11B 2462/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 6.337 V/m; Power Drift = -0.06 dB  
 Peak SAR (extrapolated) = 0.393 W/kg  
 SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.112 W/kg

Info: Interpolated medium parameters used for SAR evaluation.  
 Maximum value of SAR (measured) = 0.321 W/kg



Date: 05.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

**Q23111313-2E****DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02**

Communication System: UID 0, 2.4G wifi (0); Communication System Band: 11b; Frequency: 2437 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.753$  S/m;  $\epsilon_r = 38.047$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2011)

## DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(8, 8, 8); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/ANT2 Back side 11B 2437 1/Area Scan (9x25x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0333 W/kg

**Configuration/ANT2 Back side 11B 2437 1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

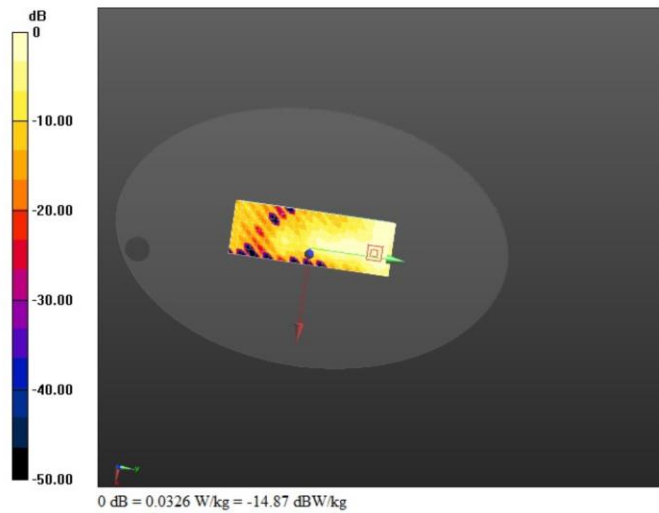
Reference Value = 2.506 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.011 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0326 W/kg



### 3. WIFI\_5G Head-worn 0mm SAR

Date: 18.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

Q23111313-2E

DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02

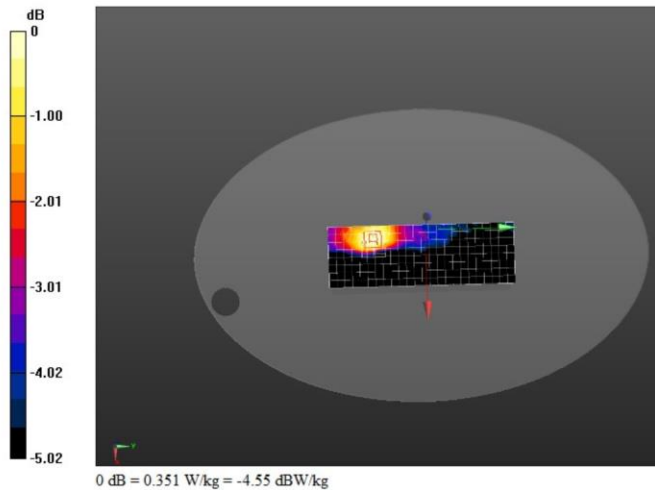
Communication System: UID 0, 5G Wifi (0); Communication System Band: 5G wifi; Frequency: 5200 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005  
Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.49$  S/m;  $\epsilon_r = 36.971$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(5.81, 5.81, 5.81); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/ANT1 Top Side 11A 5200/Area Scan (9x25x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.349 W/kg**Configuration/ANT1 Top Side 11A 5200/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=1.4$ mm  
Reference Value = 1.927 V/m; Power Drift = 0.12 dB  
Peak SAR (extrapolated) = 0.489 W/kg  
SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.175 W/kg  
Maximum value of SAR (measured) = 0.351 W/kg

Date: 18.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

**Q23111313-2E****DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02**

Communication System: UID 0, 5G Wifi (0); Communication System Band: 5G wifi; Frequency: 5500 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.822$  S/m;  $\epsilon_r = 35.948$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

## DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(5.2, 5.2, 5.2); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/ANT1 Top Side 11A 5500/Area Scan (9x25x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.686 W/kg

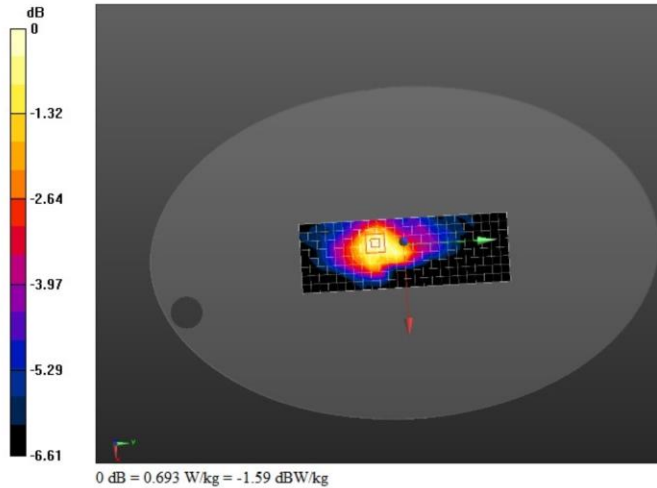
**Configuration/ANT1 Top Side 11A 5500/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=1.4$ mm

Reference Value = 11.55 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.973 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.693 W/kg



Date: 18.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

**Q23111313-2E****DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02**

Communication System: UID 0, 5G Wifi (0); Communication System Band: 5G wifi; Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 5785$  MHz;  $\sigma = 5.109$  S/m;  $\epsilon_r = 35.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

## DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(5.06, 5.06, 5.06); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/ANT1 Top Side 11A 5785/Area Scan (9x25x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.313 W/kg

**Configuration/ANT1 Top Side 11A 5785/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=1.4$ mm

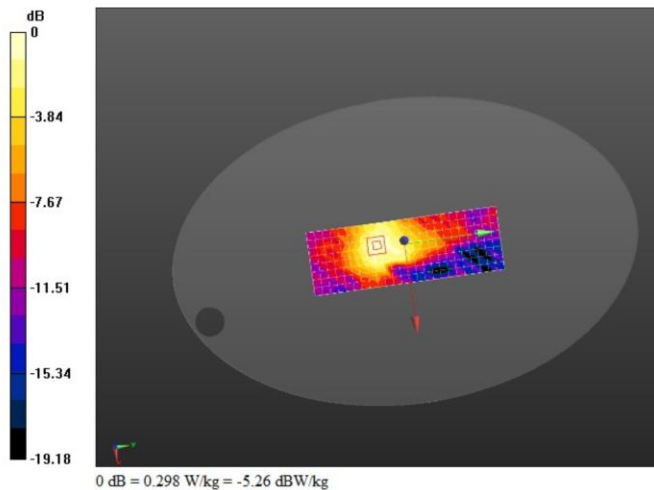
Reference Value = 7.244 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.500 W/kg

SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.069 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.298 W/kg





Date: 18.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

**Q23111313-2E**

**DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02**

Communication System: UID 0, 5G Wifi (0); Communication System Band: 5G wifi; Frequency: 5180 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.49$  S/m;  $\epsilon_r = 36.971$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(5.81, 5.81, 5.81); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/ANT2 Back Side 11A 5200/Area Scan (9x25x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.318 W/kg

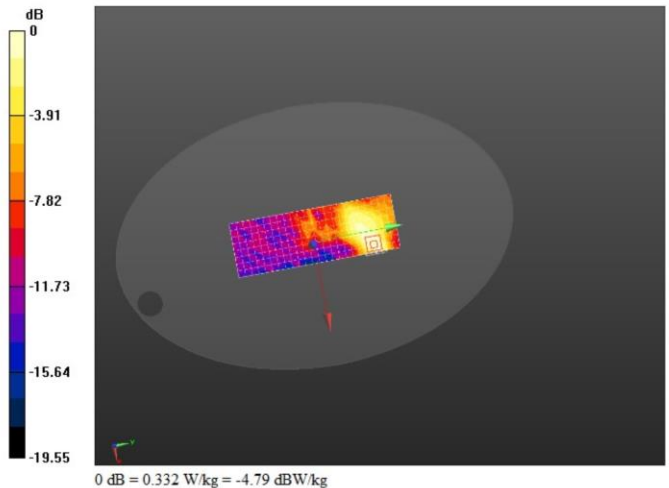
**Configuration/ANT2 Back Side 11A 5200/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=1.4$ mm

Reference Value = 3.246 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.525 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.332 W/kg



Date: 18.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

**Q23111313-2E****DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02**

Communication System: UID 0, 5G Wifi (0); Communication System Band: 5G wifi; Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.898$  S/m;  $\epsilon_r = 35.846$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

## DASY Configuration:

- Probe: EX3DV4 - SN3906; ConvF(5.05, 5.05, 5.05); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/ANT2 Back Side 11A 5580/Area Scan (9x25x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.369 W/kg

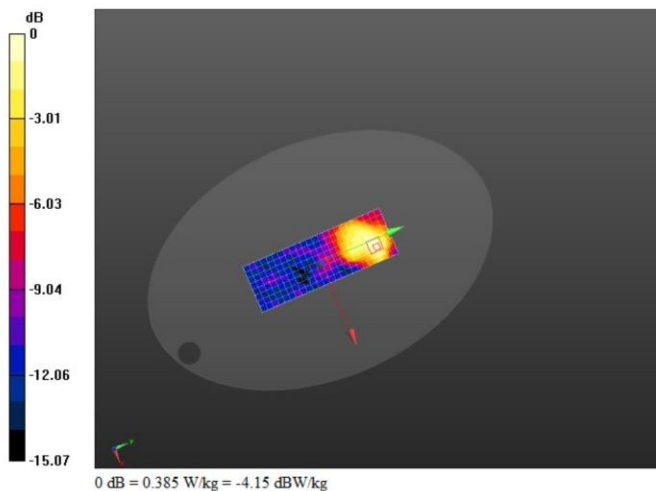
**Configuration/ANT2 Back Side 11A 5580/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=1.4$ mm

Reference Value = 3.336 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.385 W/kg



Date: 18.02.2024

Test Laboratory: Guangdong Dongdian Testing Service Co., Ltd.

**Q23111313-2E**

**DUT: Wireless Speaker; Model Number: CHARGE 5 Wi-Fi; Serial: S23111313-02**

Communication System: UID 0, 5G Wifi (0); Communication System Band: 5G wifi; Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated):  $f = 5785$  MHz;  $\sigma = 5.109$  S/m;  $\epsilon_r = 35.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

**DASY Configuration:**

- Probe: EX3DV4 - SN3906; ConvF(5.06, 5.06, 5.06); Calibrated: 21.04.2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1366; Calibrated: 10.04.2023
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1197
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/ANT2 Back Side 11A 5785/Area Scan (9x25x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

**Info: Interpolated medium parameters used for SAR evaluation.**

Maximum value of SAR (measured) = 0.709 W/kg

**Configuration/ANT2 Back Side 11A 5785/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=1.4$ mm

Reference Value = 3.732 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.152 W/kg

**Info: Interpolated medium parameters used for SAR evaluation.**

Maximum value of SAR (measured) = 0.735 W/kg

